



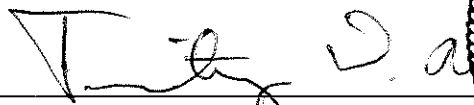
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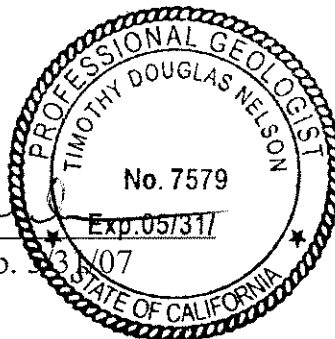
SITE SUMMARY AND REQUEST FOR CLOSURE

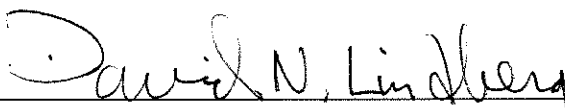
Former Henderson Center Cab Corporation
135 West 7th Street
Eureka, California

LOP NO. 12382

Prepared for:
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2300 Norman Court
Eureka, California 95503


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June 17, 2005
Project No. 3670.02

SITE SUMMARY AND REQUEST FOR CLOSURE REPORT

Former Henderson Center Cab Corporation (City Ambulance)

135 West 7th Street, Eureka, California

LOP No. 12382; LACO Project No. 3670.02

EXECUTIVE SUMMARY

The Former Henderson Center Cab Corporation (City Ambulance) site (hereafter referred to as the “site”) is located at 135 West 7th Street in Eureka, California (Figure 1). A map illustrating the site’s features is included as Figure 2. The current owner and site representative are Ms. Joyce Startare and Mr. Fred Sundquist, respectively. The surrounding land uses are residential (south) and commercial (north, west, and east). The site is the location of an active cab corporation and City Ambulance.

The following report provides an overview of the history of the site and work activities to date. The data collected from previous subsurface investigations indicate that the majority of the secondary source has been removed from the site. Additionally, quarterly groundwater sampling in the monitoring wells indicates that there is no dissolved-phase plume on site. Thus, no adverse environmental impacts to sensitive receptors in the area are expected, and closure of this site is requested.

SITE HISTORY

The site has been used for the operation of Henderson Center Cab Corp., Six Rivers Towing, and the City Ambulance Company. The site formerly had three underground storage tanks (USTs) which were used to fuel vehicles. Dates of UST installations are unknown (please see Application for Permit to Operate Underground Storage Tank; Attachment 1). According to site personnel, one 500 and one 1000-gallon USTs were installed earlier than the mid 1970s. These USTs were removed by Beacom Construction (Beacom) of Fortuna, California, in December 1987. Beacom reported that both tanks were in excellent condition. However, no estimate of the quantity of product released was made. There were no records available to determine if the USTs removed in 1987 showed any evidence of leakage. Additionally, no soil or groundwater was sampled at the time of the UST removal. There is also no available information of how the 1987 cavity was treated. However, it is assumed that the cavity excavation was replaced with clean fill to replace the volume of the UST. One 5000-gallon (single wall steel) UST was installed at the site in the mid 1970s. On July 1, 1987, and February 28, 1990, the 5000-gallon UST tested tight under National Fire Protection Agency (NFPA) criteria. On August 28, 1991, the 5000-gallon UST was removed by Beacom. The Humboldt County Health Department personnel on-site during the 1991 UST removal reported evidence of

overfilling. Soil and groundwater samples were collected for analysis under the direct supervision of the county representative on site during removal activities. The 5000-gallon gasoline UST itself and its associated piping did not appear to have leaked. No record of any UST related spills, leaks, or accidents exists for this site. Soil from the 1991 tank cavity excavation was replaced in the excavation with additional clean fill added to replace the volume of the tank.

Fieldwork performed by LACO ASSOCIATES (LACO) to evaluate potential soil and groundwater contamination presumed to originate from the former USTs includes boring installations in January 1992 and September 1999. Additionally, LACO installed three monitoring wells (MW1 through MW3) in August 1994, one monitoring well (MW4) in April 2002, and one monitoring well (MW5) in October 2003. Historic well data and groundwater analytical results and historic soil analytical data are included as Tables 1 and 2, respectively. Based on the subsurface investigation to date, concentrations of any remaining fuel in soil and groundwater are low to non-detect.

BACKGROUND

The events leading to this report include:

- July 1987: One 5000-gallon UST tested tight under NFPA criteria.
- December 1987: One 500 and one 1000-gallon gasoline USTs were removed from the site by Beacom.
- February 1990: The 5000-gallon UST tested tight under NFPA criteria
- August 1991: The 5000-gallon UST was closed by Beacom. The removal was conducted under permit by and observation of the Humboldt County Division of Environmental Health (HCDEH). Water sampled in the tank excavation by Beacom personnel was tested at North Coast Laboratories (NCL) and was reported to contain 0.59 µg/L toluene. No other contamination was detected.
- October 1991: The North Coast Regional Water Quality Control Board (NCRWQCB) sent a letter to the owner requesting further information or a hydrogeologic assessment workplan.
- November 1991: LACO was contracted to perform site screening to assess potential soil and groundwater contamination.

1992 Investigation

January 1992

Two soil borings (B1 and B2) were installed, in accordance with LACO's *Initial Subsurface Investigation Workplan*. The soil borings were installed to a depth of 14 feet to assess possible groundwater contamination. Boring B1 was installed near the former pump dispenser and boring B2 was installed near the approximate southwest corner of the former 1000-gallon gasoline UST. Soil was screened with a photoionization detector (PID) and a Hanby analytical test kit in the field. PID readings indicated only 0.6 ppm of hydrocarbon vapors in soil samples from 7.5 to 9.5 feet in both borings. The results of the Hanby test kit indicated 10 to 50 ppm hydrocarbons in soil from 7.5 to 9.5 feet below ground surface (bgs) in B1. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX) at NCL. Groundwater from boring B1 contained 1.2 µg/L toluene and 0.53 µg/L xylenes. Groundwater from boring B2 contained only 0.72 µg/L toluene; all other results were reported as non-detect. In May 1992, groundwater was re-sampled from the borings and analyzed for TPHg and BTEX to confirm the results of the previous testing. Groundwater from boring B1 was found to contain only 0.61 µg/L toluene; all other tests were non-detect. Groundwater from boring B2 was found to contain only 0.73 µg/L benzene, 3.3 µg/L toluene, and 2.04 µg/L total xylenes.

1994 Investigation

August 1994

Three 2-inch diameter monitoring wells (MW1 through MW3) were installed in accordance with LACO's January 1994 *Workplan Addendum*. Soil samples collected during the installation of monitoring wells MW1 and MW2 contained low to moderate concentrations of petroleum hydrocarbons at the standard limits of detection. Analytical results for soil and groundwater samples collected from the installation of monitoring wells MW1 through MW3 are provided in Attachment 2.

September 1994

Groundwater from the three wells was initially collected on September 19, 1994. The laboratory analytical results for monitoring well MW1 indicated all analytes as non-detect. However, results of the groundwater analyses for monitoring well MW2 indicated the presence of TPHg, benzene, ethylbenzene, and total xylenes over the standard limits of detection. Groundwater samples from monitoring well MW3 did not contain detectable petroleum hydrocarbons or BTEX constituents at

the standard limits of detection. Laboratory analytical results for the September 1994 sampling event are presented in Table 1.

1999 Investigation

September 1999

Nine 2-inch temporary soil borings were installed around the former northern fuel UST cavity (B1 through B9), in accordance with LACO's August 1999 *Subsurface Investigation "North" Tank Workplan*. Please note that these borings were not numbered consecutively from the boring installation performed in January 1992. Laboratory analytical results from soil and groundwater samples obtained during this investigation indicated low concentrations of petroleum hydrocarbons. Soil samples from borings B1 at 8 and 13 feet bgs, B2 at 4.5 feet bgs, B3 at 5 and 14 feet bgs, B4 at 5, 9, and 13 feet bgs, and B7 at 5 and 9 feet bgs contained significant concentrations of petroleum hydrocarbons. Soil samples from boring B6 at 3.75, 5, 9, and 14 feet bgs had the highest concentrations of petroleum hydrocarbons in soil. Additionally, groundwater collected from borings B1 and B3 through B9 were sampled for TPHd and analytical results indicated high concentrations. Copies of soil analytical results for borings B1 through B9 are presented as Attachment 3. Copies of groundwater analytical results and a table containing TPHd concentration results for B1 and B3 through B9 are presented as Attachment 4.

2001 Investigation

October 2001

On October 31, 2001, work activities regarding the overexcavation at the site were initiated and were completed on November 6, 2001. The work activities were performed in accordance with LACO's *Workplan for Soil Excavation* dated April 20, 2000, and an approval letter from the HCDEH dated May 1, 2000. On October 31, 2001, following removal of the pavement by Beacom, LACO collected shallow soil samples S1 through S11 within the excavation perimeter (Figure 3). Approximately 477 cubic yards (715.24 tons) of gasoline-contaminated soil was excavated in the area of the former north tank cavity, near the southeastern portion of the site structure, to a depth of approximately 9 feet bgs. The gasoline-contaminated soil was loaded directly into trucks provided by Ben's Truck & Equipment (Ben's) and was transported to Ben's disposal facility in Red Bluff, California, for disposal. Additionally, the HCDEH instructed Beacom to expand the lateral limits of the excavation based on the discovery of additional total petroleum hydrocarbon as motor oil (TPHmo) contamination in the southwestern portion of the excavation. TPHmo-contaminated material was

separated and stockpiled on-site. The estimated area disturbed during contaminated soil removal was approximately 2,082 square feet.

The results of verification soil samples collected during the excavation activities indicated that some contaminated material was left in place. Verification soil samples North 1B, North 2A, West 1B, West 2B, West 1A tank, and West 1B tank, indicated results over 50 µg/g. This material was left in place due to the proximity to the site structure. Additionally, samples South 1A and South 1B also indicated results over 50 µg/g. The excavation did not proceed in this direction because of encroachment into the adjacent alley. Other verification samples indicated non-detect or low concentrations of petroleum hydrocarbons. However, BTEX concentrations were reported as non-detect or low concentrations, indicating degraded constituents. Please refer to LACO's *Report of Findings for Overexcavation*, dated February 2002.

November 2001

On November 1, 2001, excavation work activities continued and monitoring well MW2 was destroyed. On November 2, 2001, LACO collected soil samples from the TPHmo stockpile remaining on-site to obtain disposal characterization information. The results of the stockpile testing indicated that the concentration of lead exceeded Ben's waste disposal requirements. Additional testing was mandated. On November 2, 5, and 6, 2001, LACO collected verification samples from the cavity sidewalls and bottom (Figure 4). Refer to Table 2 for a summary of the concentrations.

December 2001

On December 11, 2001, an additional sample was collected from the remaining on-site TPHmo soil stockpile. The results from the additional testing indicated that excessive concentrations of lead in the material precluded disposal at Ben's facility.

2002 Investigation

January 2002

Additional analytical testing of the overexcavation contaminated soil located at Ben's disposal facility was performed by Ben's and indicated that total lead concentrations exceeded their acceptance criteria. The contaminated soil from the overexcavation was subsequently reloaded (approximately 765.13 tons of contaminated material) and was transported from January 23 to

January 30, 2002, to the Kettleman Landfill in Kettleman City, California, for disposal. The 49.89 tons in extra weight was added during the temporary storage of the material within a clay liner cover.

April 2002

On April 25, 2002, monitoring well MW4 was installed (Figure 4) to replace monitoring well MW2 which was destroyed during overexcavation activities in November 2001. The monitoring well was constructed of solid 1.5 inch diameter schedule 40 PVC pipe from grade to 6 feet bgs and with slotted screen from 6 to 16 feet bgs. In the sample collected at the 4 foot bgs interval, TPHg, benzene, ethylbenzene and total xylenes were detected at concentrations of 48 µg/g, 0.12 µg/g, 0.076 µg/g and 0.093 µg/g, respectively. Additionally, TPHmo with a silica gel cleanup was detected at a concentration of 1,300 µg/g. At the 6-foot bgs sampling interval, TPHg, benzene, and total xylenes were detected at concentrations of 2.4 µg/g, 0.022 µg/g, and 0.0088 µg/g, respectively. At the 8-foot bgs sampling interval, only TPHg was detected at a concentration of 1.6 µg/g. At the 12-foot bgs sampling interval, TPHg was detected at a concentration of 1.0 µg/g. At the 16-foot bgs sampling interval, total xylenes were detected at a concentration of 0.0055 µg/g. The laboratory reported no other detectable concentrations of hydrocarbon contamination at the standard limits of detection from soil samples collected during the installation of monitoring well MW4.

September 2002

LACO conducted a sensitive receptor survey (SRS) for the site in September 2002. LACO submitted questionnaires to approximately 133 owners of properties located within a 1,000-foot radius of the subject property. A door-to-door survey was conducted for those parcels owned by non-respondents. For properties where no one was present to grant permission for access, inspections were conducted from the public rights of-way. Based on returned questionnaires, follow-up inquiries and previous investigations, LACO identified seven domestic wells within the survey radius. Approximately 35 property owners within a 1,000-foot radius of the subject property did not respond to the questionnaire, and adequate visual inspection of these properties was not always possible.

2003 Investigation

October 2003

On October 23, 2003, monitoring well MW5 was installed in accordance with LACO's *Monitoring Well Installation Workplan*, dated December 2002, with approval from the HCDEH in

correspondence dated January 13, 2003 (Figure 4). Monitoring well MW5 was installed to an approximate depth of 15 feet bgs. The well was constructed with 1½-inch diameter solid PVC pipe from 0 to 5 feet bgs and with 0.010 inch machine-slotted screen from 5 feet to the total depth. During the monitoring well installation, soil samples were collected at 5, 10, and 15 feet bgs. The analytical results from the installation did not indicate the presence of petroleum hydrocarbon contamination in soil above the standard detection limits. Copies of the laboratory analytical results for soil samples are presented as Attachment 5. Initial groundwater samples from monitoring well MW5, collected on January 7, 2004, were non-detect for all target analytes (Table 1).

2004 Investigation

March 2004

On March 2, 2004, LACO's *Subsurface Investigation Status Report* was submitted to HCDEH.

April 2004

On April 22, 2004, a LACO technician was on-site to locate and measure flow line depths of underground utilities on the City Ambulance site and in the vicinity. Locations of a sanitary sewer manhole and depth-to-flow line were documented. The sanitary sewer located on California Street south of West 7th Street (at a total depth of 6.17 feet bgs) was found to contain less than an inch of water. Monitoring well MW3, located closest to the sanitary sewer manhole on California Street has recorded depth-to-water (DTW) as shallow as 5.17 feet bgs. Although it appears possible for groundwater to intercept the sanitary sewer located on the site, California Street appears to be hydraulically upgradient of the site. On the April 22, 2004, site visit, construction activities prevented the location and flow line depth measurement of the storm drain in the alley southeast of the site. However, as this storm drain appears to be located hydraulically upgradient of the site; it does not appear possible for contamination originating from this site to intercept the storm drain.

August 2004

On August 4, 2004, the remaining on-site stockpile (high lead concentrations) was removed by Ben's and was transported to the Kettleman Landfill in Kettleman City, California, for disposal.

2005 Investigation

January 2005

On January 6, 2005, groundwater samples were collected from monitoring well MW4 and the

analysis of these samples indicated low concentrations of benzene (1.3µg/L) and toluene (0.77µg/L). The concentration of toluene reported was well below the NCRWQCB water quality objective (WQO) of 42µg/L. However, benzene was slightly above the WQO of 1 µg/L. Although, the concentration of benzene was reported above WQO, it exhibits a decreasing trend according to the *Groundwater Monitoring Report; First Quarter 2005* submitted to the HCDEH in February 16, 2005. All other analytes were reported as non-detect (Table 1).

Concentrations of all analytes at monitoring well MW5 have been reported as non-detect (ND) for all sampling events from January 2004 through January 2005. The data suggests that no dissolved-phase TPHg plume exists at the location of monitoring well MW5.

WATER QUALITY GOALS

Title 22 of the California Code of Regulations outlines domestic water quality and monitoring standards of organic compounds in Section 64431. In the case of TPHg and benzene, WQOs are defined by the practical quantitative limit, or the method detection limit of United States Environmental Protection Agency method 8260 analysis, as the actual water quality objective is lower. WQOs (NCRWQCB, Water Quality Objectives, Region 1) for the contaminants of concern at this site are presented below.

Contaminant of Concern	Water Quality Objective (mg/L)
Benzene	1.0
Toluene	42
Ethylbenzene	29
Xylenes	42
TPHmo	50
TPHg	50
TPHd	50
MTBE	13

SUMMARY OF MONITORING WELL RESULTS

Detectable contamination from MW1 contained MTBE only on two occasions; the sample collected in August 1996 (MTBE at 73 µg/L), and the sample collected in January 1998 (MTBE at 6.2µg/L). The analytical results following the January 1998 sampling event indicated non-detect for all analytes in monitoring well MW1. However, laboratory analytical results for MW2 indicated that concentrations of detected hydrocarbon constituents fluctuated within 1 and 2 orders of magnitude throughout the duration of the project until monitoring well MW2 was destroyed in November 2001.

Historical laboratory analytical results for monitoring well MW3 always indicated non-detect petroleum hydrocarbons and BTEX constituents at the standard limits of detection. Since sampling was initiated in May 2002, TPHg, benzene, toluene, and total xylenes have been reported in monitoring well MW4. The highest concentration of TPHg (110 µg/L) in monitoring well MW4 was detected during the January 2003 sampling event when benzene was also detected at 1.2µg/L. The highest concentration of benzene (4.2µg/L) detected in monitoring well MW4 was during the January 2004 sampling event. Benzene and toluene were the only two analytes detected in monitoring well MW4 since the January 2004 sampling event. However, toluene (0.77 µg/L) in monitoring well MW4 is well below the WQO of 42 µg/L. The most current laboratory analytical results for monitoring well MW4 indicates benzene has been slightly over the WQO of 1.0 µg/L. Although the concentration of benzene for the January 2005 sampling event is above the WQO, it exhibits a decreasing trend as demonstrated in Chart 1. All other analytes were always reported as non-detect for monitoring well MW4.

Potential Sensitive Receptors

There are no ecological sensitive receptors located in the survey area. However, Humboldt Bay is located approximately 2,100 to 2,200 feet to the northwest of the site. Other potential sensitive receptors include neighboring residents who may be at risk of ingesting contaminated groundwater from domestic wells. The area of Eureka located within the 1,000-foot radius of the site is serviced by City of Eureka public utilities.

Site Geology

The site is in the City of Eureka on a portion of an emergent, Late-Pleistocene marine terrace. Surrounding terrain is generally flat to gently sloping toward the northwest at less than 10 percent. Approximate elevation of the site is 15 feet NAVD-88 (USGS Eureka, California. 7.5' quadrangle).

Soil encountered during the installation of monitoring wells MW4 and MW5 was predominantly poorly graded fine sand with various fractions of silt. A finer unit of stiff silt was observed from approximately 13 feet bgs to 14 feet bgs.

Hydraulic Gradient

DTW measurements observed during the most recent sampling event (1/6/05) varied between 4.89 to 7.92 feet. Groundwater monitoring reports completed to date indicate hydraulic gradient directions varying from S85°W to S78°E and becoming more stable in previous sampling events from N43°E to N27°W. The phreatic surface is effectively flat, its slopes varied from 0.06 to 1.7 percent, as calculated using the three-point method in the area defined by monitoring wells MW1, MW2, and MW3, (before MW2 was destroyed) and MW1, MW3, and MW4 (after MW2 was destroyed). After monitoring well MW5 was installed, the hydraulic gradient was also calculated by using the three-point method in the area defined by monitoring wells MW1, MW3, and MW5. Monitoring well MW4 was not utilized for the most recent hydraulic gradient calculations because monitoring wells MW1, MW3, and MW5 covered a larger area than monitoring wells MW1, MW3, and MW4. Since monitoring began in 1994, the hydraulic gradient varied in all the directions. However, the hydraulic gradient appears to be stable since 2001 sampling event. A historical gradient data is presented as Table 3.

CONCLUSIONS

- It appears that the majority of the secondary source has been removed from the site.
- Based on the concentrations and locations of detected groundwater contamination, it appears that the groundwater plume is stable, receding, and decreasing in concentration.
- Results in all monitoring wells have been reported as very low to non-detect for over 1e year. Monitoring and sampling have been completed for over 2 full years in monitoring well MW4 and over 1 full year in monitoring well MW5.

RECOMMENDATIONS

Recommendations include the following:

- The WQO for TPHg in monitoring well MW4 was met in July 2003. The January 2005 sampling event indicated benzene only slightly higher than the WQO, and the subsequent sampling event in April 2005 indicated non-detect for benzene. No target analytes above standard limits of

detection have been reported in monitoring well MW5. Based on the historical and most recent laboratory analytical results from the site, LACO requests that the HCDEH issue a “No Further Action” status for the site.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability for any errors, omissions, or inaccuracies in the information and data presented in this report, and/or any consequences arising therefrom, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind, including but not limited to any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented and that data generated for this report represents information gathered at that time and at the indicated locations. It should not be utilized by any third party to represent data for any other time or location. It is known that site and subsurface environmental conditions can change with time and under anthropologic influences. This report is valid solely for the purpose, site, and project described in this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Soil Sample Location for Soil Samples S1 through S11

Figure 4: Excavation Limits and Verification Soil Samples

Table 1: Well Data and Groundwater Analytical Results

Table 2: Historical Soil Analytical Results

Table 3: Historical Groundwater Results for borings

Chart 1: Time Series Plot of Analyte Concentrations in Monitoring Well MW4

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS (continued)

Attachment 1: Application for Permit to Operate Underground Storage Tank

Attachment 2: Soil Analytical Results; August 1994, for Monitoring Well MW1, MW2, and MW3
Installation

Attachment 3: Groundwater and TPHd Laboratory Results for the Installation of Borings B1 and B3
through B9

Attachment 4: Soil Analytical Results for the Installation of Borings B1 through B9

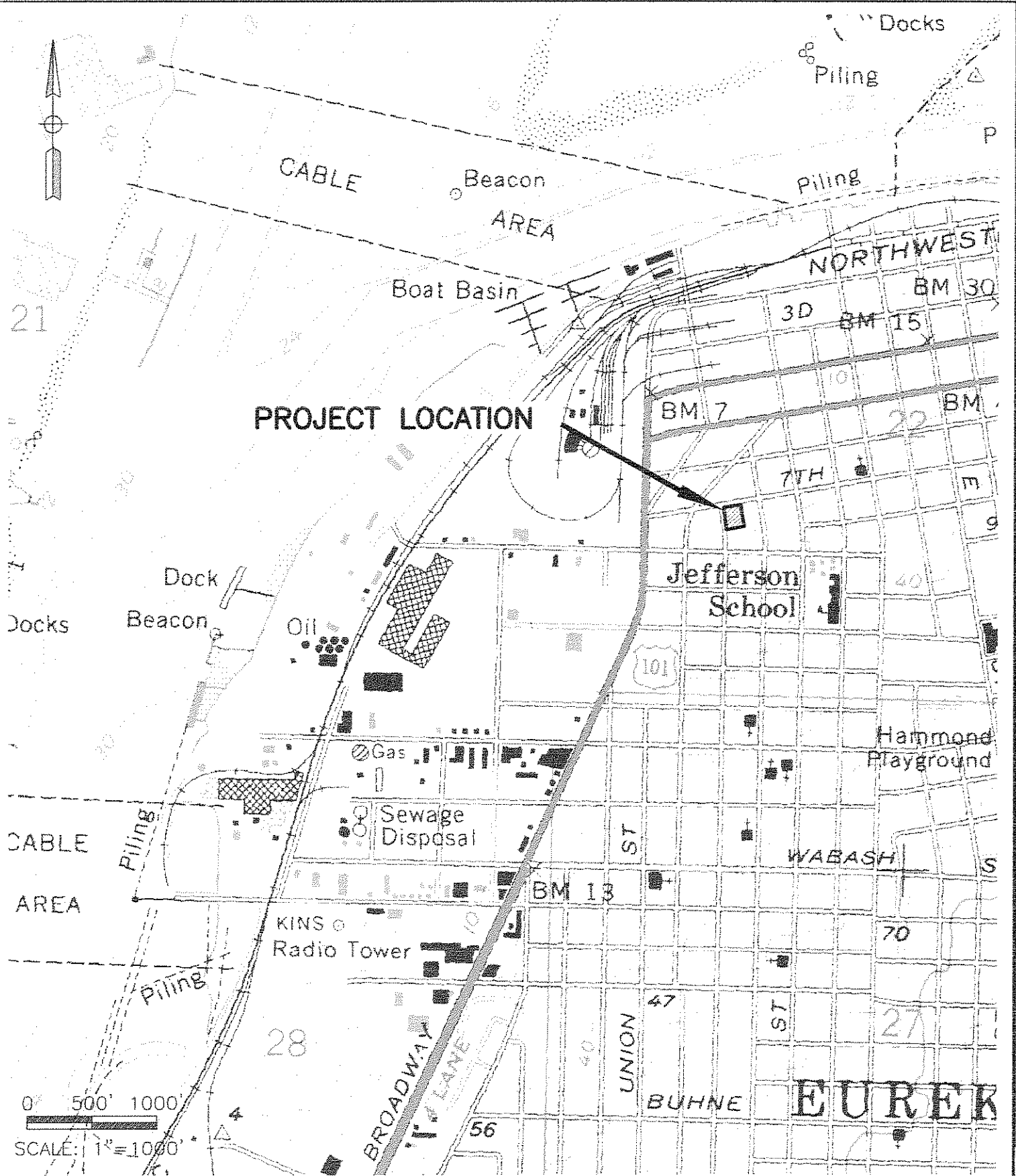
Attachment 5: Soil Laboratory Analytical Results for the Installation of Monitoring Well MW5

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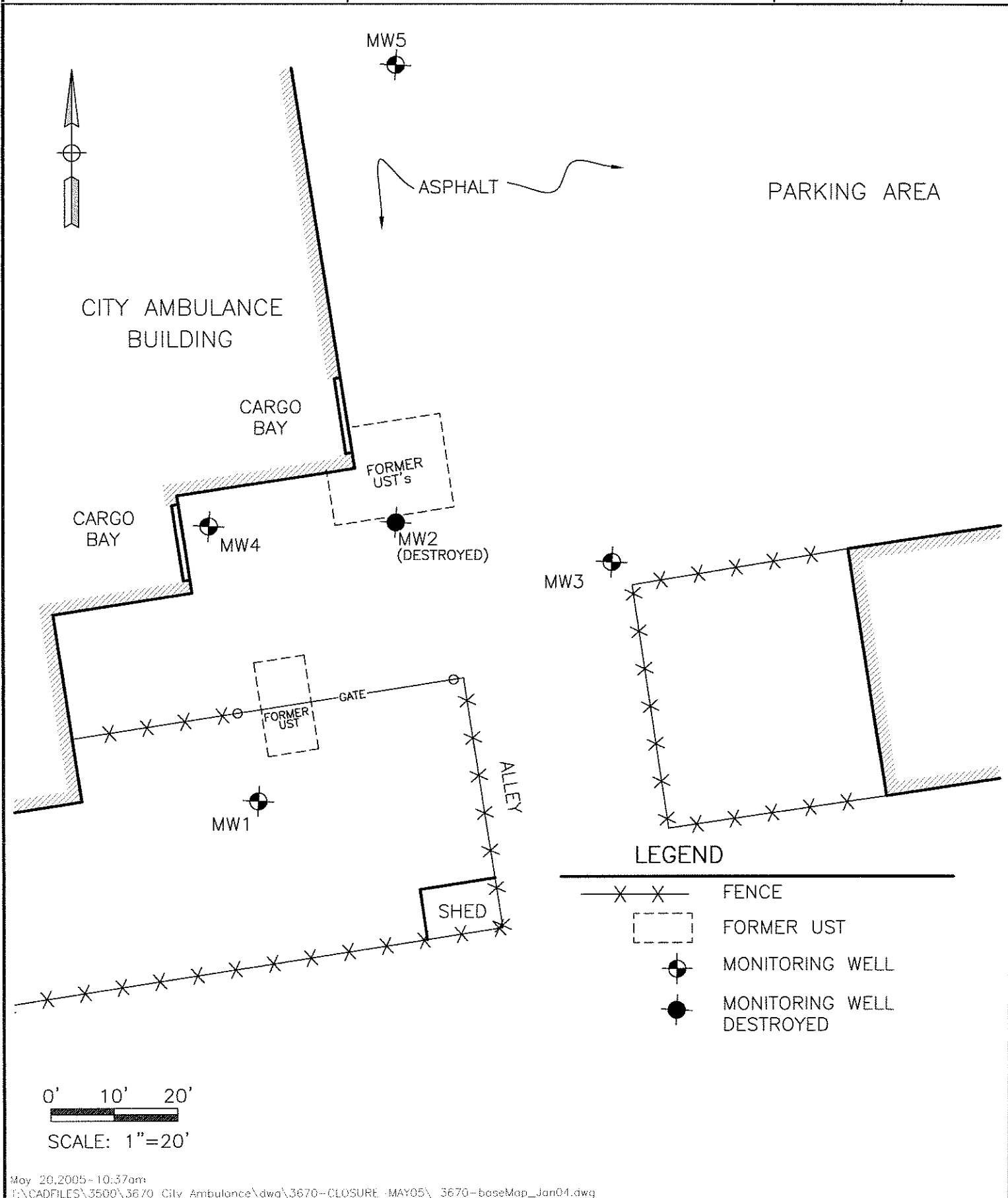
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LOCATION	135 W. 7TH STREET	CHECK			
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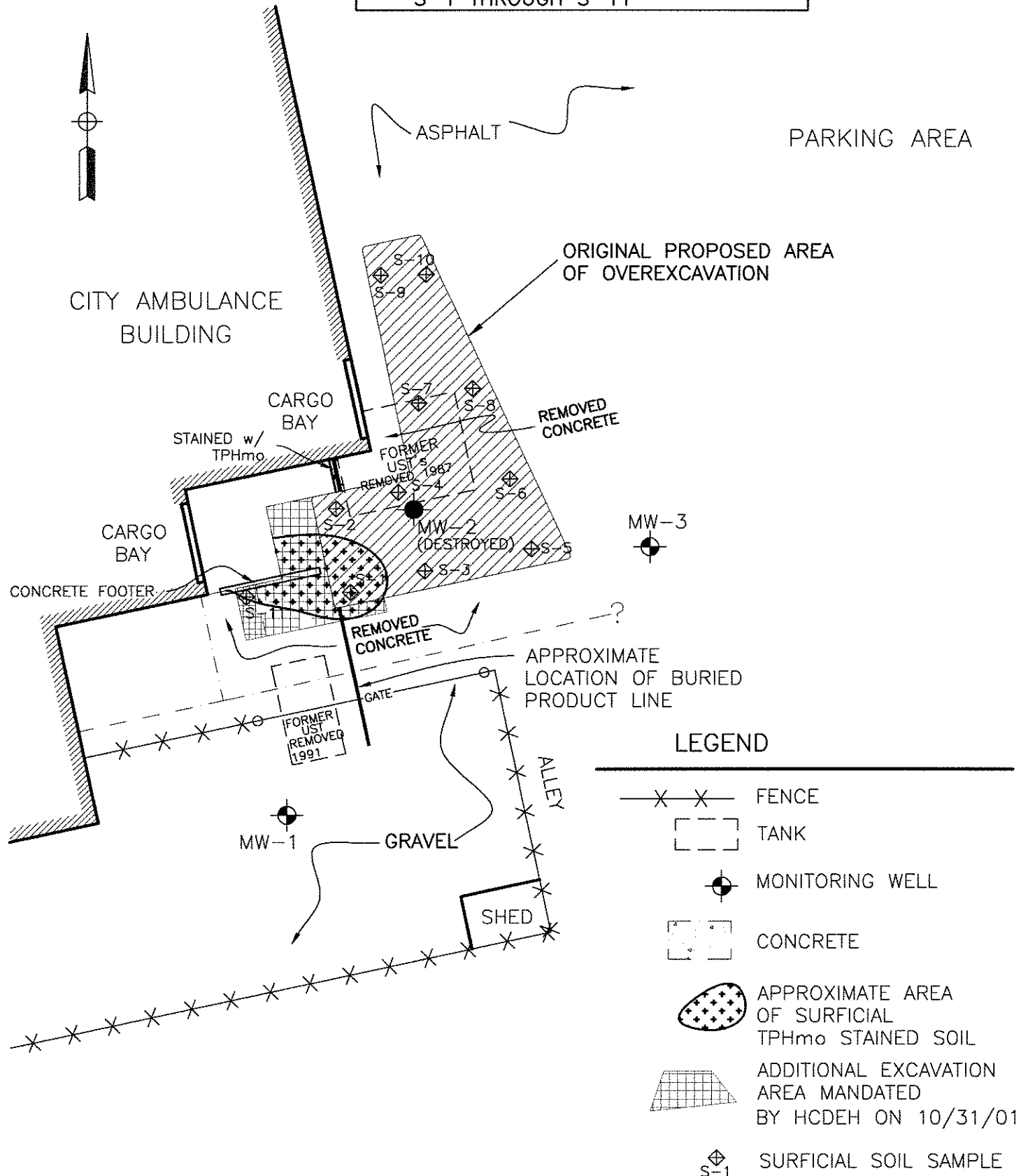
PROJECT	SITE SUMMARY & REQUEST FOR CLOSURE	BY	RJM	FIGURE	2
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LOCATION	135 W. 7TH STREET, EUREKA	CHECK			
	SITE MAP	SCALE	1"=20'		3670.02





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PROJECT	SITE SUMMARY & REQUEST FOR CLOSURE	BY	RJM	FIGURE	3
CLIENT	CITY AMBULANCE OF EUREKA, INC	DATE	5/20/05	JOB NO.	
LOCATION	135 W. 7TH STREET, EUREKA	CHECK	<i>[Signature]</i>		
	SURFICIAL SOIL SAMPLE LOCATIONS	SCALE	1"=20'		3670.02
	S-1 THROUGH S-11				





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PROJECT	SITE SUMMARY & REQUEST FOR CLOSURE	BY	RJM	FIGURE	4
CLIENT	CITY AMBULANCE OF EUREKA, INC	DATE	5/20/05	JOB NO.	
LOCATION	135 W. 7TH STREET, EUREKA	CHECK	<i>[Signature]</i>		
EXCAVATION LIMITS & VERIFICATION SOIL SAMPLES				SCALE	1"=20'
					3670.02

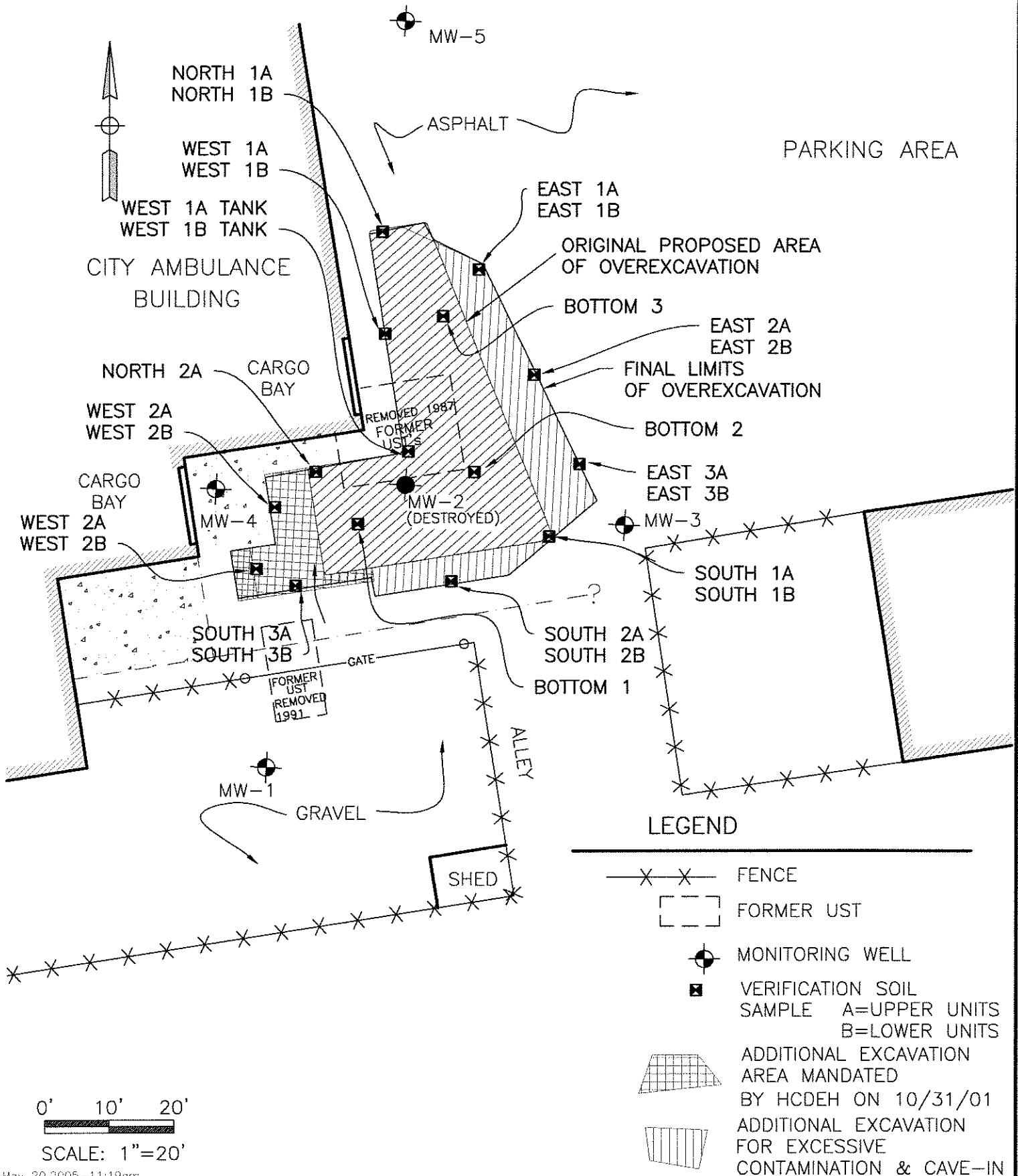


TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

City Ambulance; LOP No. 12382

135 West Seventh Street, Eureka

Project No. 3670.02

WELL/ Sample Date	Groundwater Measurements			Analytical Results							
	Well Head Elevation (feet, NAVD 88)	Ground- water Elevation (feet msl)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (ug/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-1	13.26										
9/19/1994		5.68	7.58	ND	ND	---	ND	ND	ND	ND	---
10/14/1994		5.45	7.81	---	---	---	---	---	---	---	---
11/14/1994		6.26	7.00	---	---	---	---	---	---	---	---
12/20/1994		7.84	5.42	ND	ND	---	ND	ND	ND	ND	---
12/29/1994		8.41	4.85	---	---	---	---	---	---	---	---
1/17/1995		9.44	3.82	---	---	---	---	---	---	---	---
2/28/1995		7.68	5.58	---	---	---	---	---	---	---	---
3/30/1995		8.75	4.51	ND	ND	---	ND	ND	ND	ND	---
4/21/1995		8.84	4.42	---	---	---	---	---	---	---	---
5/26/1995		7.57	5.69	---	---	---	---	---	---	---	---
6/28/1995		5.19	8.07	ND	ND	---	ND	ND	ND	ND	---
7/26/1995		6.82	6.44	---	---	---	---	---	---	---	---
8/28/1995		6.33	6.93	---	---	---	---	---	---	---	---
7/18/1996		6.76	6.50	---	---	---	---	---	---	---	---
8/14/1996		6.36	6.90	ND	ND	---	ND	ND	ND	ND	73
9/27/1996		6.16	7.10	---	---	---	---	---	---	---	---
10/23/1996		6.15	7.11	---	---	---	---	---	---	---	---
11/26/1996		7.44	5.82	---	---	---	---	---	---	---	---
2/27/1997		8.08	5.18	---	---	---	---	---	---	---	---
3/25/1997		7.64	5.62	ND	ND	---	ND	ND	ND	ND	ND
4/10/1997		7.45	5.81	---	---	---	---	---	---	---	---
7/8/1997		6.71	6.55	---	---	---	---	---	---	---	---
8/13/1997		6.23	7.03	---	---	---	---	---	---	---	---
9/18/1997		6.40	6.86	---	---	---	---	---	---	---	---
10/21/1997		6.43	6.83	---	---	---	---	---	---	---	---
11/19/1997		7.27	5.99	---	---	---	---	---	---	---	---
12/26/1997		8.06	5.20	---	---	---	---	---	---	---	---
1/13/1998		9.15	4.11	ND	ND	---	ND	ND	ND	ND	6.2
3/3/1998		9.10	4.16	---	---	---	---	---	---	---	---
3/24/1998		9.83	3.43	---	---	---	---	---	---	---	---
4/28/1998		7.86	5.4	---	---	---	---	---	---	---	---
6/1/1998		7.62	5.64	---	---	---	---	---	---	---	---
6/11/1998		7.41	5.85	---	---	---	---	---	---	---	---
7/23/1998		6.81	6.45	ND	ND	---	ND	ND	ND	ND	ND
8/10/1998		6.38	6.88	---	---	---	---	---	---	---	---
9/9/1998		6.22	7.04	---	---	---	---	---	---	---	---
10/12/1998		5.92	7.34	---	---	---	---	---	---	---	---
11/13/1998		6.86	6.40	---	---	---	---	---	---	---	---
12/7/1998		9.34	3.92	---	---	---	---	---	---	---	---
1/19/1999		8.27	4.99	ND	ND	---	ND	ND	ND	ND	ND
7/20/1999		6.88	6.38	ND	NA	---	ND	ND	ND	ND	ND
1/13/2000		7.88	5.38	ND	NA	---	ND	ND	ND	ND	ND
8/1/2000		6.44	6.82	ND	NA	---	ND	ND	ND	ND	ND
1/10/2001		6.74	6.52	ND	NA	---	ND	ND	ND	ND	ND
8/2/2001		5.91	7.35	NT	NT	---	NT	NT	NT	NT	NT
10/17/2001		5.36	7.90	---	---	---	---	---	---	---	---
1/16/2002		8.24	5.02	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
5/13/2002		7.80	5.46	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
7/2/2002		6.71	6.55	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
1/17/2003		8.97	4.29	---	---	---	---	---	---	---	---
7/10/2003		7.05	6.21	---	---	---	---	---	---	---	---
1/7/2004		8.87	4.39	---	---	---	---	---	---	---	---
4/16/2004		7.48	5.78	---	---	---	---	---	---	---	---
7/7/2004		6.59	6.67	---	---	---	---	---	---	---	---
10/11/2004		5.85	7.41	---	---	---	---	---	---	---	---
1/6/2005		8.37	4.89	---	---	---	---	---	---	---	---
4/6/2005		8.46	4.80	---	---	---	---	---	---	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

City Ambulance; LOP No. 12382

135 West Seventh Street, Eureka

Project No. 3670.02

WELL/ Sample Date	Groundwater Measurements			Analytical Results							
	Well Head Elevation (feet, NAVD 88)	Ground- water Elevation (feet msl)	Depth to Water (feet)	TPH _g (µg/L)	TPH _d (µg/L)	TPH _{mo} (ug/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-2	13.99										
9/19/1994		5.92	8.07	19,000	ND	---	620	ND	620	449	---
10/14/1994		5.69	8.30	---	---	---	---	---	---	---	---
11/14/1994		6.35	7.64	---	---	---	---	---	---	---	---
12/20/1994		7.80	6.19	---	---	---	---	---	---	---	---
12/29/1994		8.17	5.82	17,000	370	---	940	60	590	245	---
1/17/1995		9.19	4.80	---	---	---	---	---	---	---	---
2/28/1995		7.83	6.16	---	---	---	---	---	---	---	---
3/30/1995		8.75	5.24	7,700	180	---	220	ND	230	99	---
4/21/1995		8.79	5.20	---	---	---	---	---	---	---	---
5/26/1995		7.71	6.28	---	---	---	---	---	---	---	---
6/28/1995		7.39	6.60	7,100	85	---	290	22	220	91	---
7/26/1995		7.03	6.96	---	---	---	---	---	---	---	---
8/28/1995		6.54	7.45	---	---	---	---	---	---	---	---
7/18/1996		6.99	7.00	---	---	---	---	---	---	---	---
8/14/1996		6.61	7.38	7,800	96	---	460	35	410	178	---
9/27/1996		6.45	7.54	---	---	---	---	---	---	---	---
10/23/1996		6.39	7.60	---	---	---	---	---	---	---	---
11/26/1996		7.45	6.54	---	---	---	---	---	---	---	---
2/27/1997		8.13	5.86	---	---	---	---	---	---	---	---
3/25/1997		7.79	6.20	6,700	58	---	150	ND	190	67	ND
4/10/1997		7.66	6.33	---	---	---	---	---	---	---	---
7/8/1997		6.89	7.10	---	---	---	---	---	---	---	---
8/13/1997		6.50	7.49	---	---	---	---	---	---	---	---
9/18/1997		6.57	7.42	---	---	---	---	---	---	---	---
10/21/1997		6.65	7.34	---	---	---	---	---	---	---	---
11/19/1997		7.18	6.81	---	---	---	---	---	---	---	---
12/26/1997		8.05	5.94	---	---	---	---	---	---	---	---
1/13/1998		8.72	5.27	7,700	350	---	250	ND	300	86	ND
3/3/1998		9.03	4.96	---	---	---	---	---	---	---	---
3/24/1998		9.32	4.67	---	---	---	---	---	---	---	---
4/28/1998		8.02	5.97	---	---	---	---	---	---	---	---
6/1/1998		8.37	5.62	---	---	---	---	---	---	---	---
6/11/1998		7.59	6.40	---	---	---	---	---	---	---	---
7/23/1998		7.06	6.93	7,400	160	---	300	ND	380	130	53
8/10/1998		6.86	7.13	---	---	---	---	---	---	---	---
9/9/1998		6.51	7.48	---	---	---	---	---	---	---	---
10/12/1998		6.18	7.81	---	---	---	---	---	---	---	---
11/13/1998		6.98	7.01	---	---	---	---	---	---	---	---
12/7/1998		9.13	4.86	---	---	---	---	---	---	---	---
1/19/1999		8.06	5.93	---	---	---	---	---	---	---	---
7/20/1999		7.10	6.89	---	---	---	---	---	---	---	---
1/13/2000		7.74	6.25	8,800	510	---	210	ND	65	32	ND
8/1/2000		6.65	7.34	9,300	500	---	230	54	120	77	ND
1/10/2001		6.84	7.15	---	---	---	---	---	---	---	---
8/2/2001		6.06	7.93	14,000	960	---	310	82	220	171	ND
10/17/2001		5.56	8.43	---	---	---	---	---	---	---	---
11/1/2001	----well destroyed----			---	---	---	---	---	---	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

City Ambulance; LOP No. 12382

135 West Seventh Street, Eureka

Project No. 3670.02

WELL/ Sample Date	Groundwater Measurements			Analytical Results							
	Well Head Elevation (feet, NAVD 88)	Ground- water Elevation (feet msl)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (ug/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-3	14.66										
9/19/1994		6.22	8.44	ND	ND	---	ND	ND	ND	ND	---
10/14/1994		5.92	8.74	---	---	---	---	---	---	---	---
11/14/1994		6.44	8.22	---	---	---	---	---	---	---	---
12/20/1994		7.64	7.02	ND	ND	---	ND	ND	ND	ND	---
12/29/1994		8.03	6.63	---	---	---	---	---	---	---	---
1/17/1995		9.22	5.44	---	---	---	---	---	---	---	---
2/28/1995		7.78	6.88	---	---	---	---	---	---	---	---
3/30/1995		8.72	5.94	ND	ND	---	ND	ND	ND	ND	---
4/21/1995		8.76	5.90	---	---	---	---	---	---	---	---
5/26/1995		7.67	6.99	---	---	---	---	---	---	---	---
6/28/1995		7.31	7.35	ND	ND	---	ND	ND	ND	ND	---
7/26/1995		7.00	7.66	---	---	---	---	---	---	---	---
8/28/1995		6.64	8.02	---	---	---	---	---	---	---	---
7/18/1996		6.98	7.68	---	---	---	---	---	---	---	---
8/14/1996		6.68	7.98	ND	ND	---	ND	ND	ND	ND	---
9/27/1996		6.52	8.14	---	---	---	---	---	---	---	---
10/23/1996		6.49	8.17	---	---	---	---	---	---	---	---
11/26/1996		7.20	7.46	---	---	---	---	---	---	---	---
2/27/1997		8.11	6.55	---	---	---	---	---	---	---	---
3/25/1997		7.84	6.82	ND	ND	---	ND	ND	ND	ND	ND
4/10/1997		7.59	7.07	---	---	---	---	---	---	---	---
7/8/1997		6.92	7.74	---	---	---	---	---	---	---	---
8/13/1997		6.59	8.07	---	---	---	---	---	---	---	---
9/18/1997		6.68	7.98	---	---	---	---	---	---	---	---
10/21/1997		6.68	7.98	---	---	---	---	---	---	---	---
11/19/1997		7.25	7.41	---	---	---	---	---	---	---	---
12/26/1997		8.05	6.61	---	---	---	---	---	---	---	---
1/13/1998		8.82	5.84	ND	ND	---	ND	ND	ND	ND	---
3/3/1998		9.09	5.57	---	---	---	---	---	---	---	---
3/24/1998		9.49	5.17	---	---	---	---	---	---	---	---
4/28/1998		8.03	6.63	---	---	---	---	---	---	---	---
6/1/1998		7.78	6.88	---	---	---	---	---	---	---	---
6/11/1998		7.61	7.05	---	---	---	---	---	---	---	---
7/23/1998		7.11	7.55	ND	ND	---	ND	ND	ND	ND	ND
8/10/1998		6.89	7.77	---	---	---	---	---	---	---	---
9/9/1998		6.65	8.01	---	---	---	---	---	---	---	---
10/12/1998		6.49	8.17	---	---	---	---	---	---	---	---
11/13/1998		7.03	7.63	---	---	---	---	---	---	---	---
12/7/1998		9.29	5.37	---	---	---	---	---	---	---	---
1/19/1999		8.16	6.50	ND	ND	---	ND	ND	ND	ND	ND
7/20/1999		7.12	7.54	ND	NA	---	ND	ND	ND	ND	ND
1/13/2000		8.16	6.50	ND	NA	---	ND	ND	ND	ND	ND
8/1/2000		6.72	7.94	ND	NA	---	ND	ND	ND	ND	ND
1/10/2001		6.91	7.75	ND	NA	---	ND	ND	ND	ND	ND
8/2/2001		6.28	8.38	NT	NT	---	NT	NT	NT	NT	NT
10/17/2001		5.95	8.71	---	---	---	---	---	---	---	---
1/16/2002		8.27	6.39	ND<0.50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
5/13/2002	14.42	7.24	7.18	ND<0.50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
7/2/2002		6.71	7.71	ND<0.50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
1/17/2003		8.73	5.69	---	---	---	---	---	---	---	---
7/10/2003		6.99	7.43	---	---	---	---	---	---	---	---
1/7/2004		8.60	5.82	---	---	---	---	---	---	---	---
4/16/2004		7.34	7.08	---	---	---	---	---	---	---	---
7/7/2004		6.62	7.80	---	---	---	---	---	---	---	---
10/11/2004		6.04	8.38	---	---	---	---	---	---	---	---
1/6/2005		8.22	6.20	---	---	---	---	---	---	---	---
4/6/2005		8.28	6.14	---	---	---	---	---	---	---	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS

City Ambulance; LOP No. 12382
 135 West Seventh Street, Eureka
 Project No. 3670.02

WELL/ Sample Date	Groundwater Measurements			Analytical Results							
	Well Head Elevation (feet, NAVD 88)	Ground- water Elevation (feet msl)	Depth to Water (feet)	TPHg (µg/L)	TPHd (µg/L)	TPHmo (ug/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
MW-4	14.49										
5/13/2002		7.15	7.34	72	---	---	1.0	ND<0.50	ND<0.50	ND<0.50	ND<3.0
7/2/2002		6.57	7.92	ND<50	ND<50	---	0.71	ND<1.1	ND<0.50	ND<0.50	ND<3.0
1/17/2003		8.43	6.06	110	ND<50	---	1.2	ND<2.5	ND<0.50	ND<0.50	ND<3.0
7/10/2003		6.89	7.60	ND<50	ND<50	---	ND<0.50	ND<2.0	ND<0.50	ND<0.50	ND<3.0
1/7/2004		8.32	6.17	ND<50	ND<50	ND<170	4.2	ND<1.0	ND<0.50	0.51	ND<3.0
4/16/2004		7.23	7.26	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
7/7/2004		6.43	8.06	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
10/11/2004		5.68	8.81	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
1/6/2005		7.90	6.59	ND<50	ND<50	ND<170	1.3	0.77	ND<0.50	ND<0.50	ND<3.0
4/6/2005		8.01	6.48	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
MW-5	14.75										
1/7/2004		7.13	7.62	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
4/16/2004		6.54	8.21	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
7/7/2004		5.92	8.83	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
10/11/2004		5.01	9.74	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
1/6/2005		6.83	7.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
4/6/2005		7.03	7.72	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0

NOTES:

msl - mean sea level
 TPHg - total petroleum hydrocarbons as gasoline
 TPHd - total petroleum hydrocarbons as diesel
 MTBE - methyl tertiary butyl ether
 ND- non-detect at reporting limits shown
 NA - non applicable
 NT - sample not taken
 Bold results indicate analyte detection

TABLE 2: HISTORIC SOIL ANALYTICAL DATA

City Ambulance; LOP No. 12382
135 West Seventh Street, Eureka
LACO Project No. 3670.02

Soil Sample ID	Sample Date	Depth (ft bgs)	TPHg (µg/g)	TPHd (µg/g)	TPHmo (µg/g)	Benzene (µg/g)	Toluene (µg/g)	Ethylbenzene (µg/g)	Total Xylenes (µg/g)	MTBE (µg/g)	Metals (µg/g)
Overexcavation											
S-1	10/31/2001	0	270	71	1,000	ND<0.20	ND<1.5	ND<1.0	ND<2.0	ND<0.50	---
S-2	10/31/2001	0	93	13	65	ND<0.050	ND<0.6	0.37	2.45	ND<0.050	---
S-3	10/31/2001	0	1.7	1.2	15	0.021	ND<0.015	ND<0.0050	ND<0.015	ND<0.050	---
S-4	10/31/2001	0	680	11	210	ND<0.15	ND<2.5	ND<2.0	ND<2.0	ND<0.15	---
S-5	10/31/2001	0	2.1	1.1	36	ND<0.0050	ND<0.010	ND<0.0050	ND<0.014	ND<0.050	---
S-6	10/31/2001	0	2.6	2.1	35	0.0091	ND<0.015	0.020	0.017	ND<0.050	---
S-7	10/31/2001	0	1.5	ND<1.0	11	ND<0.0050	ND<0.015	0.038	0.086	ND<0.050	---
S-8	10/31/2001	0	4.6	2.4	110	0.029	ND<0.070	0.10	0.073	ND<0.050	---
S-9	10/31/2001	0	ND<1.0	ND<1.0	ND<10	ND<0.0050	ND<0.0050	ND<0.0050	0.011	ND<0.050	---
S-10	10/31/2001	0	8.1	ND<1.0	24	0.029	ND<0.080	0.40	0.12	ND<0.050	---
S-11	10/31/2001	0	1,600	720	2,200	ND<0.50	ND<15	ND<2.5	ND<4.0	ND<5.0	---
North 1A	11/6/2001	2-6	7.2	ND<1.0	---	0.014	ND<0.050	0.30	0.22	ND<0.050	---
North 1B	11/6/2001	7-9	91	9.8	---	ND<0.25	ND<0.50	2.4	1.6	ND<2.5	---
North 2A	11/2/2001	2-6	73	7.6	120	0.071	ND<0.50	1.8	2.16	ND<0.50	---
South 1A	11/2/2001	2-6	900	910	---	ND<1.3	ND<0.90	ND<3.0	ND<1.3	ND<2.5	---
South 1B	11/2/2001	7-9	1,200	960	---	ND<3.0	ND<0.040	ND<0.015	ND<0.018	ND<0.050	---
South 2A	11/2/2001	2-6	4.7	2.7	---	0.012	ND<0.040	ND<0.015	ND<0.018	ND<0.050	---
South 2B	11/2/2001	7-9	3.5	ND<1.0	---	ND<0.0050	ND<0.040	ND<0.018	ND<0.020	ND<0.050	---
South 3A	11/2/2001	2-6	7.2	1.7	48	0.040	ND<0.080	ND<0.030	ND<0.040	ND<0.050	---
South 3B	11/2/2001	7-9	1.8	ND<1.0	ND<10	ND<0.0050	ND<0.025	ND<0.0050	ND<0.0050	ND<0.050	---
East 1A	11/6/2001	2-6	42	3.1	---	0.10	ND<0.30	0.52	0.80	ND<0.050	---
East 1B	11/6/2001	7-9	37	4.1	---	ND<0.0050	ND<0.15	ND<0.20	ND<0.20	ND<0.50	---
East 2A	11/6/2001	2-6	ND<1.0	ND<1.0	---	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
East 2B	11/6/2001	7-9	3.1	ND<1.0	---	ND<0.0050	ND<0.010	ND<0.010	ND<0.020	ND<0.050	---
East 3A	11/6/2001	2-6	ND<1.0	ND<1.0	---	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
East 3B	11/6/2001	7-9	2.9	1.9	---	0.0078	ND<0.0050	ND<0.0050	ND<0.012	ND<0.050	---
West 1A	11/6/2001	2-6	1.1	2.9	---	ND<0.0050	ND<0.0050	0.0061	0.0308	ND<0.050	---
West 1B	11/6/2001	7-9	2,800	270	---	0.93	ND<16	38	45	ND<2.5	---
West 2A	11/2/2001	2-6	18	ND<100	2,000	ND<0.0050	ND<0.040	ND<0.030	ND<0.030	ND<0.050	---
West 2B	11/2/2001	7-9	190	ND<100	2,500	ND<0.16	ND<1.0	ND<0.40	ND<0.50	ND<0.050	---
West 1A Tank	11/6/2001	2-6	540	180	390	ND<1.0	ND<7.0	15	ND<2.0	ND<2.5	---
West 1B Tank	11/6/2001	7-9	840	70	ND<10	ND<0.25	ND<7.0	ND<40	8.4	ND<2.5	---
Bottom 1	11/2/2001	9	ND<1.0	ND<1.0	---	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
Bottom 2	11/2/2001	9	ND<1.0	81	---	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
Bottom 3	11/6/2001	9	5.6	ND<1.0	---	0.021	ND<0.025	ND<0.020	ND<0.012	ND<0.050	---

TABLE 2: HISTORIC SOIL ANALYTICAL DATA

City Ambulance; LOP No. 12382
 135 West Seventh Street, Eureka
 LACO Project No. 3670.02

Soil Sample ID	Sample Date	Depth (ft bgs)	TPHg (µg/g)	TPHd (µg/g)	TPHmo (µg/g)	Benzene (µg/g)	Toluene (µg/g)	Ethylbenzene (µg/g)	Total Xylenes (µg/g)	MTBE (µg/g)	Metals (µg/g)
Monitoring Well Installation											
MW4-S4	12/12/2001	4.0	48	ND<100	1,300	0.12	ND <0.0025	0.076	0.093	ND <0.050	---
MW4-S6	12/12/2001	6.0	2.4	ND < 1.0	ND<10	0.022	ND<0.020	ND <0.0050	0.0088	ND <0.050	---
MW4-S8	12/12/2001	8.0	1.6	ND < 1.0	ND<10	ND <0.0050	ND <0.010	ND <0.0050	ND <0.0050	ND <0.050	---
MW4-S12	12/12/2001	12.0	1.0	ND < 1.0	ND<10	ND <0.0050	ND <0.0050	ND <0.0050	ND <0.0050	ND <0.050	---
MW4-S16	12/12/2001	16.0	ND < 1.0	ND < 1.0	ND<10	ND <0.0050	ND <0.0050	ND <0.0050	0.0055	ND <0.050	---
MW5	10/23/2003	5.0	ND<1.0	ND<1.0	ND<10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
MW5	10/23/2003	10.0	ND<1.0	ND<1.0	ND<10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
MW5	10/23/2003	15.0	ND<1.0	ND<1.0	ND<10	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---

NOTES:

µg/g = micrograms per gram

ft bgs = feet below ground surface

TPHg = total petroleum hydrocarbons as gasoline

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

ND = non-detect at reporting limits shown

Bold results indicate analyte detection

--- = sample not analyzed

Cd-cadmium; Cr-Chromium; Ni-nickel; Zn-zinc; Pb-lead

TABLE 3: HISTORIC GRADIENT DATA

City Ambulance; LOP No. 12382

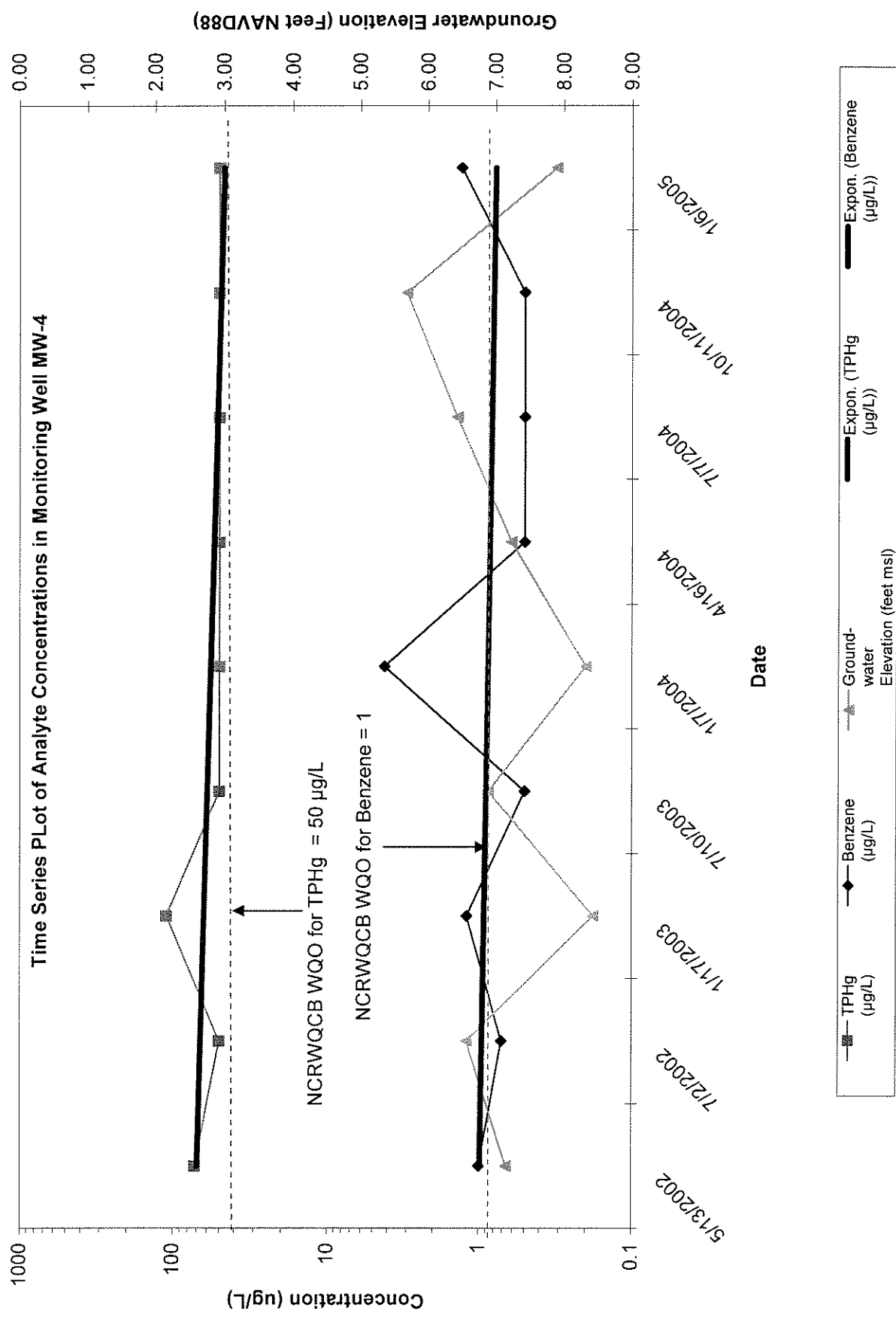
135 West Seventh Street, Eureka

Project No. 3670.02

Well/ Sample Date	Gradient Bearing	Gradient Slope
9/19/1994	S85°W	0.78%
10/14/1994	S80°W	0.65%
11/14/1994	S80°W	0.25%
12/20/1994	S78°E	0.35%
12/29/1994	N68°E	0.51%
1/17/1995	N24°E	0.41%
2/28/1995	S07°W	0.22%
3/30/1995	S68°E	0.06%
4/21/1995	N69°E	0.11%
5/26/1995	S11°W	0.21%
6/28/1995	S31°W	3.23%
7/26/1995	S22°W	0.30%
8/28/1995	S63°W	0.40%
7/18/1996	S31°W	0.34%
8/14/1996	S53°W	0.43%
9/27/1996	S51°W	0.48%
10/23/1996	S61°W	0.45%
11/26/1996	S67°E	0.52%
2/27/1997	S02°W	0.08%
3/25/1997	S56°W	0.27%
4/10/1997	S7°W	0.32%
7/8/1997	S46°W	0.29%
8/13/1997	S56°W	0.48%
9/18/1997	S71°W	0.37%
10/21/1997	S44°W	0.35%
11/19/1997	S20°W	0.18%
12/26/1997	N43°E	0.15%
1/13/1998	N15°E	0.63%
3/3/1998	N24°W	0.14%
3/24/1998	N07°E	0.76%
4/28/1998	S39°W	0.24%
6/1/1998	S20°E	1.45%
6/11/1998	S42°W	0.30%
7/23/1998	S20°W	0.52%
8/10/1998	S38°W	0.73%
9/9/1998	S64°W	0.57%
10/12/1998	N87°W	0.81%
11/13/1998	S60°W	0.22%
12/7/1998	N20°W	0.40%
1/19/1999	N04°W	0.33%
7/20/1999	S41°W	0.34%

Well/ Sample Date	Gradient Bearing	Gradient Slope
1/13/2000	S41°W	0.34%
8/1/2000	S56°W	0.37%
1/10/2001	S72°W	0.02%
8/2/2001	S87°W	0.50%
10/17/2001	N89°W	1.1%
1/16/2002	---	---
5/13/2002	N2°W	1.4%
7/2/2002	N37°W	0.29%
1/17/2003	N19°W	1.20%
7/10/2003	N22°W	0.3%
1/7/2004	N22°W	1.42%
4/16/2004	N21°W	0.9%
7/7/2004	N23°W	0.38%
10/11/2004	N46°W	1.3%
1/6/2005	N27°W	1.7%

CHART 1: TPHg, BENZENE, AND GROUNDWATER ELEVATION IN MONITORING WELL MW-4
City Ambulance; LOP No. 12382
135 West Seventh Street, Eureka
Project No. 3670.02



Attachment 1

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

() 01 NEW PERMIT () 05 RENEWED PERMIT () 07 TANK CLOSED () 09 DELETE FROM FILE (NO FEE)
() 02 CONDITIONAL PERMIT () 06 AMENDED PERMIT () 08 MINOR CHANGE (NO SURCHARGE)

OWNER

NAME (CORPORATION, INDIVIDUAL OR PUBLIC AGENCY) PUBLIC AGENCY ONLY
ROYCE M. STARTARE () 01 FED () 02 STATE () 03 LOCAL

STREET ADDRESS CITY STATE ZIP
35 1/2 WEST SEVENTH EUREKA CA 95501

I FACILITY

FACILITY NAME DEALER/FOREMAN/SUPERVISOR
ANDERSON CENTER CAB CORP. *City Ambulance* ERNEST S. ARNOLD JR.

STREET ADDRESS NEAREST CROSS STREET
35 1/2 W. 7TH CALIFORNIA

CITY COUNTY ZIP
EUREKA HUMBOLDT 95501

MAILING ADDRESS CITY STATE ZIP
P.O. BOX 5277 EUREKA CA 95501

PHONE W/AREA CODE TYPE OF BUSINESS
707-442-4553 () 01 GASOLINE STATION (X) 02 OTHER TAXI CAB CO.

NUMBER OF CONTAINERS RURAL AREAS ONLY : TOWNSHIP RANGE SECTION
2

II 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME (LAST NAME FIRST) AND PHONE W/AREA CODE NIGHTS: NAME (LAST NAME FIRST) AND PHONE W/AREA CODE
ERNEST ARNOLD 707-442-4553 SAME

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK () 04 OTHER: CONTAINER NUMBER 1

B. MANUFACTURER (IF APPROPRIATE): YEAR MFG: C. YEAR INSTALLED (X) UNKNOWN

D. CONTAINER CAPACITY: 1000 GALLONS () UNKNOWN E. DOES THE CONTAINER STORE: () 01 WASTE (X) 02 PRODUCT

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (X) 01 YES () 02 NO IF YES CHECK APPROPRIATE BOX(ES):
(X) 01 UNLEADED () 02 REGULAR () 03 PREMIUM () 04 DIESEL () 05 WASTE OIL () 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: () GAUGE () INCHES () CM (X) UNKNOWN

B. () 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) () 02 NON-VAULTED (X) 03 UNKNOWN

C. () 01 DOUBLE WALLED () 02 SINGLE WALLED () 03 LINED

D. () 01 CARBON STEEL () 02 STAINLESS STEEL () 03 FIBERGLASS () 04 POLYVINYL CHLORIDE () 05 CONCRETE
() 06 ALUMINUM () 07 STEEL CLAD () 08 BRONZE () 09 COMPOSITE () 10 NON-METALLIC
(X) 12 UNKNOWN () 13 OTHER:

Attachment 2

Soil Analytical Results; August 1994, Well Installation:

<u>7 - 9 feet:</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethylbenzene	ND	ND	ND
m,p Xylene	ND	ND	ND
o Xylene	ND	ND	ND
TPHC Gasoline	ND	2100 µg/g	ND
TPHC Diesel	ND	2.4 µg/g	ND

<u>15 - 16.5 feet:</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethylbenzene	ND	ND	ND
m,p Xylene	ND	ND	ND
o Xylene	ND	ND	ND
TPHC Gasoline	2.5 µg/g	7.2 µg/g	ND
TPHC Diesel	13 µg/g	ND	ND

Groundwater Analytical Results:

Analytical Results; September 1994, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	620 µg/L	ND
Toluene	ND	ND	ND
Ethylbenzene	ND	620 µg/L	ND
m, p, Xylene	ND	390 µg/L	ND
o, Xylene	ND	59 µg/L	ND
TPHC Diesel	ND	ND	ND
TPHC Gasoline	ND	19000 µg/L	ND

Analytical Results; December 1994, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	940 µg/L	ND
Toluene	ND	60 µg/L	ND
Ethylbenzene	ND	590 µg/L	ND
m, p, Xylene	ND	220 µg/L	ND
o, Xylene	ND	25 µg/L	ND
TPHC Diesel	ND	370 µg/L	ND
TPHC Gasoline	ND	17000 µg/L	ND

Analytical Results; March 1995, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	220 µg/L	ND
Toluene	ND	ND	ND
Ethylbenzene	ND	230 µg/L	ND
m, p, Xylene	ND	88 µg/L	ND
o, Xylene	ND	11 µg/L	ND
TPHC Diesel	ND	180 µg/L	ND
TPHC Gasoline	ND	7700 µg/L	ND

Analytical Results; June 1995, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
Benzene	ND	290 µg/L	ND
Toluene	ND	22 µg/L	ND
Ethylbenzene	ND	220 µg/L	ND
m, p, Xylene	ND	80 µg/L	ND
o, Xylene	ND	11 µg/L	ND
TPHC Diesel	ND	85 µg/L	ND
TPHC Gasoline	ND	7100 µg/L	ND

Analytical Results; August 1996, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
MTBE	73 µg/L	ND	ND
Benzene	ND	460 µg/L	ND
Toluene	ND	35 µg/L	ND
Ethylbenzene	ND	410 µg/L	ND
m, p, Xylene	ND	160 µg/L	ND
o, Xylene	ND	18 µg/L	ND
TPHC Diesel		96 µg/L	
TPHC Gasoline	ND	7800 µg/L	ND

Analytical Results; March 1997, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
MTBE	ND	ND	ND
Benzene	ND	150 µg/L	ND
Toluene	ND	ND µg/L	ND
Ethylbenzene	ND	190 µg/L	ND
m, p, Xylene	ND	67 µg/L	ND
o, Xylene	ND	ND µg/L	ND
TPHC Diesel		58 µg/L	
TPHC Gasoline	ND	6700 µg/L	ND

Analytical Results; January 1998, Sampling Event:

<u>WATER ANALYSES</u>	<u>MW 1</u>	<u>MW 2</u>	<u>MW 3</u>
MTBE	6.2	ND	ND
Benzene	ND	250 µg/L	ND
Toluene	ND	ND	ND
Ethylbenzene	ND	300 µg/L	ND
m, p, Xylene	ND	86 µg/L	ND
o, Xylene	ND	ND µg/L	ND
TPHC Diesel		350 µg/L	
TPHC Gasoline	ND	7,700 µg/L	ND

Attachment 3

Boring @ depth	Date	MTBE µg/g	Benzene µg/g	Toluene µg/g	Ethylbenzene µg/g	Xylenes µg/g	Gasoline µg/g	Diesel µg/g
B-1 @ 8.0'	9/21/99	<0.5	0.22	<4.0	13	48	660	5.8
B-1 @ 13.0'	9/21/99	<0.05	0.014	0.13	0.79	3.37	47	3.5
B-2 @ 4.5'	9/21/99	<1.5	2.2	<6.0	1.2	1.8	250	<1.0
B-2 @ 8.0'	9/21/99	<0.05	0.056	<0.06	0.045	0.06	20	3.6
B-3 @ 5.0'	9/21/99	<1.5	1.6	<3.0	0.61	1.5	220	<1.0
B-3 @ 9.0'	9/21/99	<0.05	0.024	<0.02	0.048	0.05	2.4	66
B-3 @ 14.0'	9/21/99	<0.3	0.19	<0.8	0.49	0.56	59	3.7
B-4 @ 5.0'	9/21/99	<2.5	2.7	<2.0	1.7	<8.0	660	400
B-4 @ 9.0'	9/21/99	<4.0	2.3	<2.0	2.9	<15.0	870	460
B-4 @ 13.0'	9/21/99	<0.4	0.13	<0.10	0.26	<1.5	110	21
B-5 @ 5.0'	9/21/99	<0.05	0.0097	<0.005	0.012	0.018	2.6	<1.0
B-5 @ 9.0'	9/21/99	<0.05	0.0083	<0.01	<0.02	<0.06	5.6	<1.0
B-5 @ 14.0'	9/21/99	<0.05	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0
B-6 @ 3.75'	9/22/99	<0.05	0.1	<1.0	10	43	420	37
B-6 @ 5.0'	9/22/99	<1.2	1.8	<6.0	37	155	1900	73
B-6 @ 9.0'	9/22/99	<0.5	0.18	<25	21	75.8	1400	62
B-6 @ 14.0'	9/22/99	<15	7.5	<20	45	143	2300	26
B-7 @ 3.0'	9/22/99	<0.05	0.027	<0.06	0.75	2.3	25	1.8
B-7 @ 5.0'	9/22/99	<0.05	0.15	<0.5	5.3	9.8	150	110
B-7 @ 9.0'	9/22/99	<0.05	0.013	<0.5	8.1	6.9	350	45
B-7 @ 14.0'	9/22/99	<0.05	0.017	<0.02	0.17	0.085	5.3	1.4
B-8 @ 1.5'	9/22/99	<0.05	<0.005	<0.005	<0.005	0.0251	<1.0	1.1
B-8 @ 5.0'	9/22/99	<0.05	0.012	<0.005	0.034	0.051	1.4	23
B-8 @ 9.0'	9/22/99	<0.05	0.0063	<0.01	0.014	0.032	<1.0	6.4
B-8 @ 14.0'	9/22/99	<0.05	0.027	<0.02	0.044	0.071	1.8	1.6
B-9 @ 2.5'	9/22/99	<0.05	<0.005	<0.005	<0.02	<0.04	7.8	44
B-9 @ 5.0'	9/22/99	<0.05	<0.005	<0.005	<0.005	0.0078	<1.0	55
B-9 @ 9.0'	9/22/99	<0.05	<0.005	<0.005	<0.005	<0.005	<1.0	20
B-9 @ 14.0'	9/22/99	<0.05	<0.005	<0.005	<0.005	0.0099	<1.0	7.7

Attachment 4

Henderson Center Cab Corp.
DBA City Ambulance of Eureka
135 W seventh Street, Eureka
LOP No. 12382, LACO No. 3670

**Groundwater Laboratory
Results for Borings B-1, B-3
through B-9**

Boring	Date	TPHd (µg/L)
B-1	9/21/1999	420
B-3	9/21/1999	100
B-4	9/21/1999	750
B-5	9/21/1999	66
B-6	9/21/1999	1,200
B-7	9/21/1999	1,000
B-8	9/21/1999	56
B-9	9/21/1999	58



Report Number : 15100

Date : 10/13/99

Loretta Tomlin
North Coast Laboratories
5680 West End Road
Arcata, CA 95521

Subject : 9 Water Samples
Project Name :
Project Number : 9910058

Dear Ms. Tomlin,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in dark ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-1

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	39	2.0	ug/L	EPA 8260B	10/05/99
Toluene	99	2.0	ug/L	EPA 8260B	10/05/99
Ethylbenzene	510	2.0	ug/L	EPA 8260B	10/05/99
Total Xylenes	2100	2.0	ug/L	EPA 8260B	10/05/99
Methyl-t-butyl ether (MTBE)	< 2.0	2.0	ug/L	EPA 8260B	10/05/99
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/05/99
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/05/99
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/05/99
Tert-Butanol	< 20	20	ug/L	EPA 8260B	10/05/99
Methanol	< 200	200	ug/L	EPA 8260B	10/05/99
Ethanol	< 20	20	ug/L	EPA 8260B	10/05/99
TPH as Gasoline	14000	200	ug/L	EPA 8260B	10/05/99
Toluene - d8 (Surr)	96.0		% Recovery	EPA 8260B	10/05/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/05/99

Approved By: Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-3

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	9.7	0.50	ug/L	EPA 8260B	10/09/99
Toluene	0.63	0.50	ug/L	EPA 8260B	10/09/99
Ethylbenzene	3.7	0.50	ug/L	EPA 8260B	10/09/99
Total Xylenes	5.0	0.50	ug/L	EPA 8260B	10/09/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/09/99
Methanol	56	50	ug/L	EPA 8260B	10/09/99
Ethanol	5.3	5.0	ug/L	EPA 8260B	10/09/99
TPH as Gasoline	240	50	ug/L	EPA 8260B	10/09/99
Toluene - d8 (Surr)	98.3		% Recovery	EPA 8260B	10/09/99
4-Bromofluorobenzene (Surr)	91.2		% Recovery	EPA 8260B	10/09/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :


Project Number : 9910058

Sample : 3670 B-4

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	15	0.50	ug/L	EPA 8260B	10/09/99
Toluene	2.9	0.50	ug/L	EPA 8260B	10/09/99
Ethylbenzene	4.4	0.50	ug/L	EPA 8260B	10/09/99
Total Xylenes	6.1	0.50	ug/L	EPA 8260B	10/09/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/09/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/09/99
Methanol	< 50	50	ug/L	EPA 8260B	10/09/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/09/99
TPH as Gasoline	2200	50	ug/L	EPA 8260B	10/09/99
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	10/09/99
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/09/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-5

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	5.9	0.50	ug/L	EPA 8260B	10/06/99
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Total Xylenes	0.63	0.50	ug/L	EPA 8260B	10/06/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
Methanol	< 50	50	ug/L	EPA 8260B	10/06/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
TPH as Gasoline	90	50	ug/L	EPA 8260B	10/06/99
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	10/06/99
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	10/06/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-6

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	330	5.0	ug/L	EPA 8260B	10/07/99
Toluene	58	0.50	ug/L	EPA 8260B	10/06/99
Ethylbenzene	820	5.0	ug/L	EPA 8260B	10/07/99
Total Xylenes	2200	5.0	ug/L	EPA 8260B	10/07/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
Methanol	< 50	50	ug/L	EPA 8260B	10/06/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
TPH as Gasoline	14000	500	ug/L	EPA 8260B	10/07/99
Toluene - d8 (Surr)	98.8		% Recovery	EPA 8260B	10/07/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/06/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-7

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	520	5.0	ug/L	EPA 8260B	10/07/99
Toluene	13	0.50	ug/L	EPA 8260B	10/06/99
Ethylbenzene	490	5.0	ug/L	EPA 8260B	10/07/99
Total Xylenes	180	0.50	ug/L	EPA 8260B	10/06/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
Methanol	< 100	100	ug/L	EPA 8260B	10/06/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
TPH as Gasoline	7800	500	ug/L	EPA 8260B	10/07/99
Toluene - d8 (Surr)	90.3		% Recovery	EPA 8260B	10/06/99
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	10/06/99

Approved By: Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : 3670 B-8

Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	4.0	0.50	ug/L	EPA 8260B	10/06/99
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Total Xylenes	0.71	0.50	ug/L	EPA 8260B	10/06/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/06/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
Methanol	< 100	100	ug/L	EPA 8260B	10/06/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/06/99
TPH as Gasoline	56	50	ug/L	EPA 8260B	10/06/99
Toluene - d8 (Surr)	98.4		% Recovery	EPA 8260B	10/06/99
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	10/06/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :


Project Number : 9910058

Sample : 3670 B-9

Matrix : Water

Sample Date : 09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/10/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/10/99
Methanol	< 50	50	ug/L	EPA 8260B	10/10/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/10/99
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/10/99
Toluene - d8 (Surr)	98.0		% Recovery	EPA 8260B	10/10/99
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	10/10/99

Approved By:  Joel Kiff



Report Number : 15100

Date : 10/13/99

Project Name :

Project Number : 9910058

Sample : Travel Blank

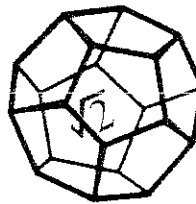
Matrix : Water

Sample Date :09/22/99

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	10/05/99
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	10/05/99
Methanol	< 50	50	ug/L	EPA 8260B	10/05/99
Ethanol	< 5.0	5.0	ug/L	EPA 8260B	10/05/99
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/05/99
Toluene - d8 (Surr)	97.7		% Recovery	EPA 8260B	10/05/99
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	10/05/99

Approved By:  Joel Kiff

Sub-Contract Chain of Custody Record



NORTH COAST LABORATORIES LTD.

Date Shipped: 10/4/99

Carrier: Airborne

Air Bill #: _____

Cooler #: _____

15100

Subcontractor: Kiff Analytical
720 Olive Dr., Ste D
Davis, CA 95616

Phone: 530-297-4800

Attention Line: Sample Receiving

Send Results to: North Coast Labs
5680 West End Road
Arcata, CA 95521
Attn: Loretta Tomlin
(707) 822-4649

<u>Jay Z.</u>	1240 10/4/99	_____	_____
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
_____	_____	_____	_____
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
_____	_____	<u>[Signature]</u> 11/6/99	10/5/99 1000
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

Analysis Request

NCL Sample #:	Sample ID:	Date Sampled:	Analysis:	Sample Condition:
9910058-1A	3670 B-1	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-01
9910058-2A	3670 B-3	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-02
9910058-3A	3670 B-4	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-03
9910058-4A	3670 B-5	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-04
9910058-5A	3670 B-6	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-05
9910058-6A	3670 B-7	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-06
9910058-7A	3670 B-8	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-07
9910058-8A	3670 B-9	9/22/99	Gas, BTXE, (7) Oxyg's/Water	-08
9910058-9A	Travel Blank		Gas, BTXE, (7) Oxyg's/Water	-09

Special Instructions: Please include QC Data. Run TB only if hits on samples.

Date Due: 10/14/99 / STD. TAT

Rush Charges Authorized: noPreservative: HCl

Return Chain of Custody to NCL

North Coast Laboratories, Ltd.

WORK ORDER Summary

Client ID: LACO

Project: 3670.02/City Ambulance

QC Level:

Company: LACO Associates

21 West 4th Street P.O. Box 1023

Eureka, CA 95501-0216

Contact: Dave Lindberg

(707) 443-5054

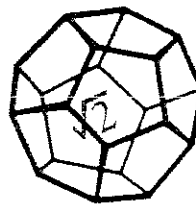
05-Oct-99

Work Order 9910058

Comments:

Sub to KifAna

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage
9910058-01A	3670 B-1	9/22/99	9/30/99	10/12/99	Groundwater	8260LIST2W	Sub to KifAna
9910058-02A	3670 B-3			10/12/99		8260LIST2W	Sub to KifAna
9910058-03A	3670 B-4			10/12/99		8260LIST2W	Sub to KifAna
9910058-04A	3670 B-5			10/12/99		8260LIST2W	Sub to KifAna
9910058-05A	3670 B-6			10/12/99		8260LIST2W	Sub to KifAna
9910058-06A	3670 B-7			10/12/99		8260LIST2W	Sub to KifAna
9910058-07A	3670 B-8			10/12/99		8260LIST2W	Sub to KifAna
9910058-08A	3670 B-9			10/12/99		8260LIST2W	Sub to KifAna
9910058-09A	Travel Blank			10/12/99	Trip Blank	8260LIST2W	Sub to KifAna


**NORTH COAST
LABORATORIES LTD.**

Sub-Contract Chain of Custody Record

Date Shipped: 10/4/99

Carrier: Airborne

Air Bill #:

Cooler #:

Subcontractor: Kiff Analytical
720 Olive Dr., Ste D
Davis, CA 95616

Phone: 530-297-4800

Attention Line: Sample Receiving

Send Results to: North Coast Labs
5680 West End Road
Arcata, CA 95521
Attn: Loretta Tomlin
(707) 822-4649

<u>Jay Z.</u>	<u>1240</u> <u>10/4/99</u>		
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time
Relinquished By: (signature)	Date/Time	Received By: (signature)	Date/Time

Analysis Request

NCL Sample #:	Sample ID:	Date Sampled:	Analysis:	Sample Condition:
9910058-1A	3670 B-1	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-2A	3670 B-3	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-3A	3670 B-4	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-4A	3670 B-5	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-5A	3670 B-6	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-6A	3670 B-7	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-7A	3670 B-8	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-8A	3670 B-9	9/22/99	Gas, BTXE, (7) Oxyg's/Water	
9910058-9A	Travel Blank		Gas, BTXE, (7) Oxyg's/Water	

Special Instructions: Please include QC Data. Run TB only if hits on samples.

Date Due: 10/14/99

/STL TAT

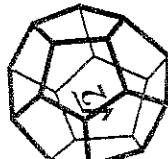
Rush Charges Authorized:

no

Preservative:

HCl

Return Chain of Custody to NCL



**NORTH COAST
LABORATORIES LTD.**

5680 West End Road • Arcata, CA 95521-9202
707-822-4649 • FAX 707-822-6831

Chain of Custody

P. 1 of

Attention: DAVID LINDBERG
Results & Invoice to: LACO ASSOCIATES
Address: 21 WEST TOWTH ST
EVERAKA, CA 95501
Phone: 413-5054
Copies of Report to: THOMAS - D. DULCOSO
Sampler (Sign & Print): C. WATT

PROJECT INFORMATION

Project Number: 3670.02
Project Name: CITY AMBULANCE
Purchase Order Number: PO# 12382

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
	3670B-1 @ 8'	9/21/99	AM	S
	@ 13'			
	3670B-2 @ 4.5'			
	@ 8.0'			
	3670B-3 @ 5.0'		PM	
	@ 9.0'			
	@ 14.0'			
	3670B-4 @ 5.0'			
	@ 7.0'			
	@ 13.0'			

[illegible]LABORATORY NUMBER: 9910059

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5-7 Day

STD (2-3 Wk) ☐ Other: ☐

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms []

Preliminary: FAX ☒ Verbal ☐ By: / /

Final Report: FAX ☐ Verbal ☐ By: / /

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄; d—Na₂S₂O₃; e—NaOH; f—C₂H₅O₂Cl; g—other

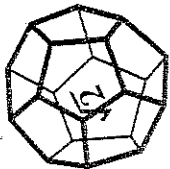
SAMPLE CONDITION/SPECIAL INSTRUCTIONS

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA ☐
 SHIPPED VIA: UPS Air-Ex Fed-Ex Bus-Hand

MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



**NORTH COAST
LABORATORIES LTD.**

5680 West End Road • Arcata, CA 95521-9202
707-822-4649 • FAX 707-822-6831

Chain of Custody

P. Le Of

LABORATORY NUMBER:


9210054

Attention: DAVID LINDBERG
Results & Invoice to: LACO ASSOCIATES
Address: _____
Phone: SEE PAGE 1
Copies of Report to: _____
Sampler (Sign & Print): _____

PROJECT INFORMATION

Project Number: 3670.02
Project Name: CATI APPROVAL
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*
	3670 B-50 5.0'	9/21/99	PM	5
	@ 5.0'	✓		
	@ 14.0'	✓		
	3670 B-6 @ 2.75'	9/27/99	PM	✓
	@ 5.0'	✓		
	@ 5.0'	✓		
	@ 14.0'	✓		
	3670 B-7 @ 3.0'	✓		
	@ 5.0'	✓		
	@ 9.0'	✓		✓

RELINQUISHED BY (Sign & Print)	DATE/TIME
	7/30/95
	2:30

MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

[illegible]

RECEIVED BY (Sign)	DATE/TIME
2.	9/30/99
	1430

LABORATORY NUMBER:

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5-7 Day
☐ STD (2-3 wk) ☐ Other:

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐

Preliminary: FAX ☐ Verbal ☐ By: / /Final Report: FAX ☐ Verbal ☐ Bv: / /

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;

3—500 ml pl; 4—1 L Nagene; 5—250 ml BG;
6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
d—Na₂S₂O₅; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

SAMPLE DISPOSAL

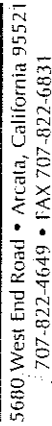
☐ NCL Disposal of Non-Contaminated

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[ ] Return      | | Pickup
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CHAIN OF CUSTODY SEALS Y/N/NA

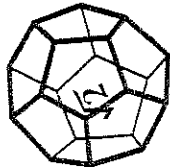
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand-

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



707-822-4649 • FAX 707-822-6831

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



NORTH COAST LABORATORIES LTD.

5680 West End Road • Arcata, CA 95521-9202
707-822-4649 • FAX 707-822-6831

Chain of Custody

Attention: SELTAGE A
Results & Invoice to: _____
Address: _____
Phone: _____
Copies of Report to: _____
Sampler (Sign & Print): _____

PROJECT INFORMATION

Project Number: 3670-02
Project Name: _____
Purchase Order Number: _____

PRELIMINARY	CONTAINER	ANALYSIS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
<u>h</u>	9/30/99	<u>Jan 2</u>	9/30/99
	2:30		1:30

LABORATORY NUMBER: 9910053

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5-7 Day
☒ STD (2-3 Wk) ☐ Other: _____

PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☒ Verbal ☐ By: 1/1/
Final Report: FAX ☐ Verbal ☐ By: 1/1/

CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl;
3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG;
6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA;
10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar;
13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO₃; b—HCl; c—H₂SO₄;
d—Na₂S₂O₃; e—NaOH; f—C₂H₅O₂Cl; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

← no sample taken per Chris 9/30/99 J.T.

HTB

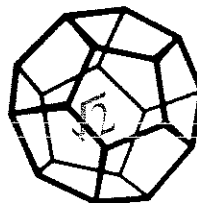
SAMPLE DISPOSAL
☒ NGL-Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA ☐
SHIPPED VIA: UPS Air-Ex Fed-Ex Bds Hand

MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 5



**NORTH COAST
LABORATORIES LTD.**

November 05, 2003

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Order No.: 0310588
Invoice No.: 37869
PO No.:
ELAP No. 1247-Expires July 2004

Attn: Dave Lindberg

RE: 3670.02, City Ambulance

SAMPLE IDENTIFICATION

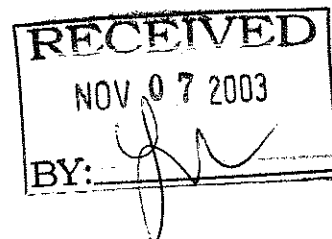
Fraction Client Sample Description

01A	3670- MW5-S-5
01B	3670- MW5-S-5
02A	3670-MW5-S-10
02B	3670-MW5-S-10
03A	3670-MW5-S-15
03B	3670-MW5-S-15

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.



LMO _____

DRG _____

~~DNL~~ DNL 11-7

GH _____

GEO _____

HPI _____

~~FON~~

~~ACF~~ ACF 12/11/03

REPORT CERTIFIED BY

Laboratory Supervisor(s)

QA Unit

Jesse G. Chaney, Jr.
Laboratory Director

File _____

Project # _____

North Coast Laboratories, Ltd.**Date:** 05-Nov-03

CLIENT: LACO Associates
Project: 3670.02, City Ambulance
Lab Order: 0310588

CASE NARRATIVE**BTEX:**

The laboratory control sample duplicate (LCSD) recovery was above the upper acceptance limit for MTBE. The laboratory control sample (LCS) recovery was within the acceptance limits; therefore, the data were accepted.

Date: 05-Nov-03

WorkOrder: 0310588

ANALYTICAL REPORT

Client Sample ID: 3670- MW5-S-5

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-01A

Matrix: Soil

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel	ND	1.0	µg/g	1.0	10/27/03	10/27/03
TPHC Motor Oil	ND	10	µg/g	1.0	10/27/03	10/27/03

Client Sample ID: 3670- MW5-S-5

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-01B

Matrix: Soil

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	11/3/03	11/4/03
Benzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Toluene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Ethylbenzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
m,p-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
o-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Surrogate: Cis-1,2-Dichloroethylene	110	71.8-135	% Rec	1.0	11/3/03	11/4/03

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas	ND	1.0	µg/g	1.0	11/3/03	11/4/03

Client Sample ID: 3670-MW5-S-10

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-02A

Matrix: Soil

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel	ND	1.0	µg/g	1.0	10/27/03	10/27/03
TPHC Motor Oil	ND	10	µg/g	1.0	10/27/03	10/27/03

Date: 05-Nov-03

WorkOrder: 0310588

ANALYTICAL REPORT

Client Sample ID: 3670-MW5-S-10

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-02B

Matrix: Soil

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	11/3/03	11/4/03
Benzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Toluene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Ethylbenzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
m,p-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
o-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Surrogate: Cis-1,2-Dichloroethylene	128	71.8-135	% Rec	1.0	11/3/03	11/4/03

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas	ND	1.0	µg/g	1.0	11/3/03	11/4/03

Client Sample ID: 3670-MW5-S-15

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-03A

Matrix: Soil

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3550/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Diesel	ND	1.0	µg/g	1.0	10/27/03	10/27/03
TPHC Motor Oil	ND	10	µg/g	1.0	10/27/03	10/27/03

Client Sample ID: 3670-MW5-S-15

Received: 10/23/03

Collected: 10/23/03 0:00

Lab ID: 0310588-03B

Matrix: Soil

Test Name: BTEX

Reference: EPA 5035/EPA 8021B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
MTBE	ND	0.050	µg/g	1.0	11/3/03	11/4/03
Benzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Toluene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Ethylbenzene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
m,p-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
o-Xylene	ND	0.0050	µg/g	1.0	11/3/03	11/4/03
Surrogate: Cis-1,2-Dichloroethylene	107	71.8-135	% Rec	1.0	11/3/03	11/4/03

Test Name: TPH as Gasoline

Reference: EPA 5035/GCFID(LUFT)/EPA 8015B

<u>Parameter</u>	<u>Result</u>	<u>Limit</u>	<u>Units</u>	<u>DF</u>	<u>Extracted</u>	<u>Analyzed</u>
TPHC Gas	ND	1.0	µg/g	1.0	11/3/03	11/4/03

North Coast Laboratories, Ltd.

Date: 05-Nov-03

CLIENT: LACO Associates

Work Order: 0310588

Project: 3670.02, City Ambulance

QC SUMMARY REPORT

Method Blank

Sample ID	MB-10217	Batch ID: 10217	Test Code: BTXES	Units: µg/g	Analysis Date 11/4/03 3:16:47 PM		Prep Date 11/3/03				
Client ID:		Run ID: ORGC8_031104B			SeqNo: 380823						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.01465	0.050									J
Benzene	0.002730	0.0050									J
Toluene	0.002804	0.0050									J
Ethylbenzene	0.001949	0.0050									J
m,p-Xylene	0.003642	0.0050									J
o-Xylene	0.002011	0.0050									J
Cis-1,2-Dichloroethylene	1.17	0.10	1.00	0	117%	72	135	0			J

Sample ID	MB-10217	Batch ID: 10217	Test Code: TPHCGS	Units: µg/g	Analysis Date	11/4/03 3:16:47 PM	Prep Date	11/3/03			
Client ID:		Run ID:	ORGC8_031104A		SeqNo:	380704					
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas	0.3241	1.0									J

Sample ID	MB-10173	Batch ID:	10173	Test Code:	TPHDMS	Units:	µg/g	Analysis Date	10/27/03 7:16:53 PM	Prep Date	10/27/03
Client ID:		Run ID:	ORGC5_031027A	SeqNo:	379199						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel	0.4544	1.0									J
TPHC Motor Oil	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0310588
Project: 3670.02, City Ambulance

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID	LCS-10217	Batch ID:	10217	Test Code:	BTXES	Units:	µg/g	Analysis Date	11/4/03 11:11:10 AM	Prep Date	11/3/03
Client ID:		Run ID:	ORGC8_031104B	SeqNo:	380820						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.4878	0.050	0.400	0	122%	75	124	0			
Benzene	0.05719	0.0050	0.0500	0	114%	80	128	0			
Toluene	0.06107	0.0050	0.0500	0	122%	85	126	0			
Ethylbenzene	0.05691	0.0050	0.0500	0	114%	80	126	0			
m,p-Xylene	0.1146	0.0050	0.100	0	115%	84	130	0			
o-Xylene	0.05534	0.0050	0.0500	0	111%	84	125	0			
Cis-1,2-Dichloroethylene	1.11	0.10	1.00	0	111%	72	135	0			

Sample ID	LCSD-10217	Batch ID:	10217	Test Code:	BTXES	Units:	µg/g	Analysis Date	11/4/03 11:46:15 AM	Prep Date	11/3/03
Client ID:		Run ID:	ORGC8_031104B	SeqNo:	380821						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.5140	0.050	0.400	0	128%	75	124	0.488	5.24%	15	S
Benzene	0.05823	0.0050	0.0500	0	116%	80	128	0.0572	1.80%	15	
Toluene	0.06099	0.0050	0.0500	0	122%	85	126	0.0611	0.135%	15	
Ethylbenzene	0.05766	0.0050	0.0500	0	115%	80	126	0.0569	1.30%	15	
m,p-Xylene	0.1156	0.0050	0.100	0	116%	84	130	0.115	0.867%	15	
o-Xylene	0.05603	0.0050	0.0500	0	112%	84	125	0.0553	1.24%	15	
Cis-1,2-Dichloroethylene	1.13	0.10	1.00	0	113%	72	135	1.11	1.10%	15	

Sample ID	LCS-10217-G	Batch ID:	10217	Test Code:	TPHCGS	Units:	µg/g	Analysis Date	11/4/03 12:55:56 PM	Prep Date	11/3/03
Client ID:		Run ID:	ORGC8_031104A	SeqNo:	380701						
Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas	10.17	1.0	10.0	0	102%	94	140	0			

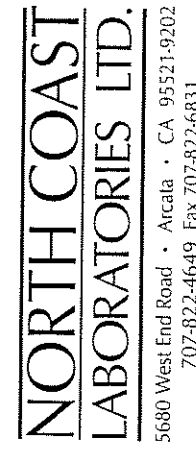
Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0310588
Project: 3670.02, City Ambulance

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID	LCSD-10217-G	Batch ID: 10217	Test Code: TPHCGS	Units: µg/g	Analysis Date	11/4/03 1:30:52 PM	Prep Date	11/3/03				
Client ID:			Run ID: ORGC8_031104A		SeqNo: 380702							
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas		11.13	1.0	10.0	0	111%	94	140	10.2	9.00%	15	
Sample ID	LCS-10173	Batch ID: 10173	Test Code: TPHDMS	Units: µg/g	Analysis Date	10/27/03 4:00:03 PM	Prep Date	10/27/03				
Client ID:			Run ID: ORGC5_031027A		SeqNo: 379195							
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel		9.371	1.0	10.0	0	93.7%	61	124	0			
TPHC Motor Oil		20.58	10	20.0	0	103%	59	134	0			
Sample ID	LCSD-10173	Batch ID: 10173	Test Code: TPHDMS	Units: µg/g	Analysis Date	10/27/03 4:33:04 PM	Prep Date	10/27/03				
Client ID:			Run ID: ORGC5_031027A		SeqNo: 379196							
Analyte		Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel		9.404	1.0	10.0	0	94.0%	61	124	9.37	0.349%	15	
TPHC Motor Oil		20.92	10	20.0	0	105%	59	134	20.6	1.63%	15	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	B - Analyte detected in the associated Method Blank
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	



Chain of Custody

0

5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

LABORATORY NUMBER:

[illegible]

PROJECT INFORMATION

Project Number: 3070.02
Project Name: CIP WINGLAND
Purchase Order Number:

[illegible]

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

FIELD NAME: Geofactor
3670-MMS
old intact

RELINQUISHED BY (Sign & Print)

DATE/TIME

RECEIVED BY (Sign)

DATE/TIME

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA

SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT